

Mohit Soni

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Work Experience

University of Washington Seattle

Machine Learning Researcher

Seattle, WA

Feb 2022 - Sep 2022

- Mentored by University of Washington Seattle Data Science Professor Sundar Srinivasan
- Collected data through Kaggle datasets & by web-scraping ESPN CricInfo website with Python
- Found probability of Cricket batsman getting out using length/speed/etc. of ball
- Trained and hyperparameter tuned Random Forests & Neural Networks
- Wrote 9-page research paper addressing my approaches and results

SparkSIP

Machine Learning Intern

Remote

Jun 2022 - Sep 2022

- Classified DNA electrical signatures to their DNA code using Random Forest models, Neural Networks, and SVM
- Presented progress to two University of Washington Seattle Professors using PowerBI
- Wrote in-depth research paper summarizing my methods and results

Project Sidewalk - Makeability Lab at the University of Washington Seattle

Web Development & Machine Learning Intern

Seattle, WA

Apr 2022 - Sep 2022

- Fixed 15-20 bugs involving JavaScript, Scala, CSS, and HTML
- Managed GitHub repository with a 40-member team
- Performed data cleaning tasks using Excel & Python
- Presented insights from cleaned data to computer vision team
- Presented progress to University of Washington Seattle Professor every week

Skills

Web Development: Bootstrap, React, Streamlit, EJS, Flask, Node.js, Express.js, Django, SQL, MongoDB
Data Science: Python, PowerBI, Pandas, Numpy, Tensorflow, Scikit-learn, Matplotlib, Plotly
Additional: Java, C++, C#, Visual Studio Code, Jupyter Notebooks, Google Colab, Kaggle

Projects

Weakness Detector Research Pandas, Numpy, Scikit-learn, PowerBI

<https://tinyurl.com/mrxr95rr>

Cricket application capable of finding weaknesses of cricket players based on past performances using Random Forest ML model with accuracy of 90%

ML Model Insights App Streamlit, Pandas, Numpy, Matplotlib

<https://algo-insights.streamlit.app/>

Application that allows users to quickly evaluate multiple ML models on an uploaded/chosen dataset both numerically and visually without writing any code

Blogging Website EJS, Node.js, Express.js, MongoDB

<https://tinyurl.com/4kcxu9xf>

A website that gives users the ability to compose blog posts for themselves, which are stored and can be viewed/edited later each on a separate webpage

Awards

1st in State for Machine Learning-based Geospatial Design

TSA (Technology Student Association)

Recognized for using maps of Washington State & data regarding the salinity, pollution, etc. of waterways to identify hazardous salmon breeding areas

Mar 2022

Webmaster State Finalist (Top 10 in State)

TSA (Technology Student Association)

Recognized for creating a website using vanilla HTML, CSS, and JavaScript that advertised the Indian Premier League (Cricket league)

Mar 2022

AP Scholar with Distinction

College Board

Recognized for receiving an average score of above 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams

Jul 2021

Education

Tesla STEM High School

Unweighted GPA: 4.00/4.00, Weighted GPA: 4.55, SAT: 1560

Redmond, WA

Sep 2019 - Jun 2023